

EXPERIENCE

IDfy | Module Lead

Jan'20 - Present (Mumbai)

IDfy is one of Asia's top 5 RegTech product companies; has raised more than \$47M in funding

Backend

- Developed an AI-powered Video KYC solution using LLMs and speaker diarization to automate auditor tasks with advanced video analysis, reducing review time by 70% and enhancing fraud detection by 15%.
- Built a scalable, real-time profile assignment engine for Video KYC, leveraging skill-based matching and configurable priority rules, optimizing auditor utilization and improving review turnaround times.
- Implemented a dynamic, rule-driven review workflow for Video KYC, enabling profiles to navigate through multiple reviewer levels, unlocking new business opportunities.
- Developed a centralized workforce access control solution, streamlining access requests and approvals with auditable trails and AI-powered workflows, driving a 20% increase in team productivity.
- Co-architected a scalable, elastic platform with priority queues, RPS-based autoscaling, and intelligent request routing improving system performance by 30% and 25% cost savings.
- Led the development of a user access management system, streamlining provisioning and management of roles, user details, and skills across multiple tenants and services.
- Developed a Connection Manager Service, ensuring seamless client connectivity by converting synchronous requests to asynchronous, eliminating connection destruction and request failures during app releases.
- Redesigned Rate Limiting Service with adaptive limits to safeguard against request surges, throttling, and degradation.
- Revamped an API Platform serving 12M+ requests daily across 150+ APIs, leveraging dynamic task routing via HTTPS/RabbitMQ, improved performance by reducing latency and ensuring efficient sync/async response handling.

Platform

- Contributed to the development of the Multiverse architecture framework, enabling single-tenant and multi-tenant deployments across GCP and AWS.
- Designed and implemented a Cloud Infrastructure Automation Pipeline using Terraform and Terragrunt on GitLab CI, automating infrastructure deployment across 20+ environments.
- Shaped observability pipelines across a large-scale, multi-product infrastructure using Linkerd, Prometheus, VictoriaMetrics, and Grafana.
- Co-architected a comprehensive logging pipeline enabling efficient log aggregation, storage, and visualization.
- Contributed to Platform Engineering initiatives, managing GCP/AWS infrastructure (networks, clusters, and more), guiding teams, enhancing security posture, and improving system reliability.

Machine Learning

- Built In-house generic OCR pipeline using Mask RCNN, CRAFT text detection, Paddle text angle classification, Tesseract OCR, and NER text classification.

IDfy | Machine Learning Intern

May'19 - July'19 (Mumbai)

- Built Aadhaar Number Masking Service to mask PII information using Yolo V3 with an accuracy of 98.76% and a TAT of 1.04s.

SKILLS

Elixir, Python, Golang, WebRTC, Kubernetes, Docker, Packer, Terraform, Terragrunt, Kustomize, ArgoCD, RabbitMQ, GCP, AWS, PostgreSQL, Neo4j, Tensorflow, OpenCV

PUBLICATIONS

Social Network-based Sentiment and Network Analysis to Predict Elections ([link](#))

IEEE | Sep 16, 2020

EDUCATION

B. Tech in Electronics and Communication Engineering

LNMIIT, Jaipur | 2020

LINKS

- LinkedIn: [linkedin.com/in/aakashjhawar](https://www.linkedin.com/in/aakashjhawar)
- Website: aakashjhawar.github.io
- GitHub: github.com/akashjhawar
- Blogs: aakashjhawar.medium.com